

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-26 (Canceled)

Claim 27 (New): A toilet seat apparatus, comprising:

a case comprising an upper lid made of rigid body and a base plate, made of rigid body, having a lower face;

a projection inwardly projected from the base plate of the case;

a pad, attached to the lower face of the base plate, that contacts an upper face of a toilet main body and that absorbs impact between the base plate and the toilet main body;

a pressing means made of elastic member, attached to an inner face of the upper lid so as to oppose to the projection; and

a vibration detecting sensor of a piezoelectric sensor in a cord-like shape located between the projection and the pressing means;

wherein said vibration detecting sensor outputs an electric signal in response to acceleration of vibrations so that at least one of seating, heartbeat and respiration is detected from body movement of user by the electric signal.

Claim 28 (New): The toilet seat apparatus of claim 27, wherein the vibration detecting sensor is flexible, and wherein a vibration detecting apparatus determines motion information based on an output of the piezoelectric sensor and determines biologic information after determining the motion information.

Claim 29 (New): The toilet seat apparatus of claim 28, further comprising controlling means for controlling at least one of displaying means, informing means, communicating means, cleansing means, drying means, toilet seat heating means, water feeding and discharging means, room air conditioning means, ventilating means, and deodorizing means based on the motion information and the biologic information.

Claim 30 (New): The toilet seat apparatus of claim 27, wherein the vibration has an acceleration, and the piezoelectric sensor outputs an electric signal in accordance with the acceleration.

Claim 31 (New): The toilet seat apparatus of claim 30, wherein the electric signal is used for detecting a heart rate or for controlling at least one of a temperature of hot water of a

cleaning means, a water pressure, and a temperature of a toilet seat heater.

Claim 32 (New): The toilet seat apparatus of claim 31, wherein the electric signal is used by being outputted to an outside monitor.

Claim 33 (New): The toilet seat apparatus of claim 27, wherein the piezoelectric sensor in the cord-like shape is attached to one of the upper lid and the base plate, and

wherein the pressing means transmits amplified vibration from the toilet seat to the piezoelectric sensor by contacting the piezoelectric sensor.

Claim 34 (New): The toilet seat apparatus of claim 27, wherein the base plate includes a through hole, and the projection extends from the pad and through the through hole into the case.

Claim 35 (New): The toilet seat apparatus of claim 27, wherein the piezoelectric sensor in the cord-like shape is supported in a state of being separated from the inner face of the case, and wherein the toilet seat apparatus comprises a plurality of

projections that alternately project from the upper lid and the base plate.

Claim 36 (New): The toilet seat apparatus of claim 27, wherein the projection and the pressing means are located above the pad when the pad is in contact with the upper face of the toilet main body.